4164-01-P

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. FDA-2020-P-2048]

Determination That MANGANESE SULFATE, Injectable, Equivalent 0.1 Milligram

Manganese/Milliliter, Was Not Withdrawn from Sale for Reasons of Safety or Effectiveness

**AGENCY:** Food and Drug Administration, HHS.

**ACTION:** Notice.

**SUMMARY:** The Food and Drug Administration (FDA or Agency) has determined that MANGANESE SULFATE, injectable, equivalent (Eq) 0.1 milligram (mg) manganese/milliliter (mL), was not withdrawn from sale for reasons of safety or effectiveness. This determination will allow FDA to approve abbreviated new drug applications (ANDAs) for MANGANESE SULFATE, injectable, Eq 0.1 mg manganese/mL, if all other legal and regulatory requirements are met.

**FOR FURTHER INFORMATION CONTACT:** Sungjoon Chi, Center for Drug Evaluation and Research, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 51, Rm. 6216, Silver Spring, MD 20993-0002, 240-402-9674, Sungjoon.Chi@fda.hhs.gov.

SUPPLEMENTARY INFORMATION: In 1984, Congress enacted the Drug Price

Competition and Patent Term Restoration Act of 1984 (Pub. L. 98-417) (the 1984 amendments),
which authorized the approval of duplicate versions of drug products under an ANDA procedure.

ANDA applicants must, with certain exceptions, show that the drug for which they are seeking approval contains the same active ingredient in the same strength and dosage form as the "listed drug," which is a version of the drug that was previously approved. ANDA applicants do not have to repeat the extensive clinical testing otherwise necessary to gain approval of a new drug application (NDA).

The 1984 amendments include what is now section 505(j)(7) of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 355(j)(7)), which requires FDA to publish a list of all approved drugs. FDA publishes this list as part of the "Approved Drug Products With Therapeutic Equivalence Evaluations," which is known generally as the "Orange Book." Under FDA regulations, drugs are removed from the list if the Agency withdraws or suspends approval of the drug's NDA or ANDA for reasons of safety or effectiveness or if FDA determines that the listed drug was withdrawn from sale for reasons of safety or effectiveness (21 CFR 314.162).

A person may petition the Agency to determine, or the Agency may determine on its own initiative, whether a listed drug was withdrawn from sale for reasons of safety or effectiveness. This determination may be made at any time after the drug has been withdrawn from sale, but must be made prior to approving an ANDA that refers to the listed drug (§ 314.161 (21 CFR 314.161)). FDA may not approve an ANDA that does not refer to a listed drug.

MANGANESE SULFATE, injectable, Eq 0.1 mg manganese/mL, is the subject of NDA 019228, held by Abraxis Pharmaceutical Products, and initially approved on May 5, 1987.

MANGANESE SULFATE is indicated for use as a supplement to intravenous solutions given for total parenteral nutrition. Administration helps to maintain manganese serum levels and to prevent depletion of endogenous stores and subsequent deficiency symptoms.

MANGANESE SULFATE, injectable, Eq 0.1 mg manganese/mL, is currently listed in the "Discontinued Drug Product List" section of the Orange Book.

Fresenius Kabi USA, LLC, submitted a citizen petition dated October 4, 2020 (Docket No. FDA-2020-P-2048), under 21 CFR 10.30, requesting that the Agency determine whether MANGANESE SULFATE, injectable, Eq 0.1 mg manganese/mL, was withdrawn from sale for reasons of safety or effectiveness.

After considering the citizen petition and reviewing Agency records and based on the information we have at this time, FDA has determined under § 314.161 that MANGANESE SULFATE, injectable, Eq 0.1 mg manganese/mL, was not withdrawn for reasons of safety or

effectiveness. The petitioner has identified no data or other information suggesting that

MANGANESE SULFATE, injectable, Eq 0.1 mg manganese/mL, was withdrawn for reasons of

safety or effectiveness. We have carefully reviewed our files for records concerning the

withdrawal of MANGANESE SULFATE, injectable, Eq 0.1 mg manganese/mL, from sale. We

have also independently evaluated relevant literature and data for possible postmarketing adverse

events. We have found no information that would indicate that this drug product was withdrawn

from sale for reasons of safety or effectiveness.

Accordingly, the Agency will continue to list MANGANESE SULFATE, injectable, Eq.

0.1 mg manganese/mL, in the "Discontinued Drug Product List" section of the Orange Book.

The "Discontinued Drug Product List" delineates, among other items, drug products that have

been discontinued from marketing for reasons other than safety or effectiveness. ANDAs that

refer to MANGANESE SULFATE, injectable, Eq 0.1 mg manganese/mL, may be approved by

the Agency as long as they meet all other legal and regulatory requirements for the approval of

ANDAs. If FDA determines that labeling for this drug product should be revised to meet current

standards, the Agency will advise ANDA applicants to submit such labeling.

Dated: May 18, 2021.

Lauren K. Roth,

Acting Principal Associate Commissioner for Policy.

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